

An Optical Chassis Pasted with Plating Film Reflection

Thin Plates

Abstract

An optical chassis pasted with plating film reflection thin plates includes: a shell body, a light source, plural reflection elements, a lens set, and an imaging apparatus. The thin plates of flexible material in lieu of prior glass material constitute the reflection elements. The reflection material is plated on one side surface of the thin plates, and the glue is coated on the other side surface of the thin plates. The thin plates, coated with glue, may be directly pasted onto appropriate positions of an optical chassis as the reflection elements. Not only the present invention completely gets rid of the prior positioning devices, such as spring pieces, screws, and the like, but also it decreases the number of parts, saves assembly time and lowers the production cost. And, further it is without lowering the quality of image scanning, which is resulted from no loose or no movement of the reflection elements. In addition, for practical needs, the thin plate with flexible material may be easily bent or manufactured to curved face or irregular shape according to requirement.